

GUIDELINES FOR STUDY PROPOSALS

United States Department of the Interior
National Park Service
Grand Canyon National Park

Your proposal should include each of the required information items listed below, in enough detail that an educated non-specialist can understand exactly what you plan to do. If you have already prepared a relevant proposal for a funding application, work plan, formal agreement, or similar document, then your original proposal likely will satisfy NPS proposal requirements. The primary area where new information may be necessary concerns the ability of the park to assess what, if any, impacts your research may have on park resources. You should compare your original proposal to these guidelines to be certain that you have provided all the required information. If additional information is required, you can provide it to the Research Permitting Coordinator as a supplement to your proposal, as appropriate. If a required topic does not apply to your proposed study, simply list the topic and write "non applicable."

The length of your proposal depends primarily on the complexity of the work planned. In some cases, a proposal may consist of 1-2 pages for a study expected to have no significant impact on park resources or visitor experiences. However, proposals for lengthy or complex research problems, for extensive collecting, and for work with special status species of sensitive cultural resources are typically longer, more detailed, and well-organized. Incomplete, disorganized, or illegible proposals will be returned for revision.

I. INTRODUCTION

A. Title

B. Date of proposal

C. Investigators

Provide the name, title, address, telephone number, email address, and institutional affiliation of the principal investigator and all additional investigators listed in the proposal.

D. Table of contents

Recommended for long or complex proposals

E. Abstract

Provide a brief summary description of the proposed project. Include up to five keywords that can be used by the NPS to quickly identify the proposal subject (i.e. microbiology, geology, ecology).

II. OVERVIEW

Summarize the proposed project by describing the problem or issue being investigated as well as any previous pertinent research.

A. Statement of issue

Describe the issue to be investigated and its importance and relevance to science and to the park. Provide relevant background information that clarifies the need for the project and why it is valuable for the research and/or collecting to be conducted in the park.

B. Literature summary

Summarize the relevant literature regarding the issue, problem, or questions that will be investigated.

C. Scope of study

Describe the overall geographic and scientific scope of the project.

D. Intended use of results

Describe how the products will be used, including any anticipated commercial use.

III. OBJECTIVES/HYPOTHESES TO BE TESTED

Describe the specific objectives of the proposed project. Where appropriate, the objectives should be stated as specific hypotheses to be tested.

IV. METHODS

Describe how the proposed methods and analytical techniques will achieve the study objectives or test the stated hypothesis/question. Provide pertinent literature citations.

A. Description of study area

Clearly describe the study area in terms of park name(s), geographic location(s), and place names. Provide UTM coordinate information (if known prior to the conducting the study) in NAD83HARN, as appropriate. Indicate whether your work will take place in an area designated or managed as wilderness by the NPS.

B. Procedures

Describe the proposed study design that addresses the stated objectives and hypotheses. Explain the methods and protocols to be employed in the field and laboratory.

C. Collections

Describe the type, size, and quantity of specimens or materials to be collected, sampled, or captured, and your plans to remove them from the collecting site. If you are aware specimens of the proposed types already exist in a repository, explain why additional collecting is necessary. Provide scientific nomenclature where possible. Provide information on all other applicable federal or state permits where required.

D. Analysis

Explain how the data from the study will be analyzed to meet the stated objectives or test the hypotheses. Include any statistical techniques or mathematical models necessary to the understanding of the analysis.

E. Schedule

Provide a schedule that includes start of project, approximate dates or seasons of fieldwork, analysis, reporting, and completion dates.

V. PRODUCTS

A. Publications and reports

Describe the expected publications or reports that will be generated from this study.

B. Collections

Describe the proposed disposition of collected specimens or materials. If you propose that the NPS lend the specimens or samples to a non-NPS institution for long-term storage, identify that institution and give a brief justification for this proposal.

C. Data and other materials

Describe any other products to be generated as part of the project, such as photographs, maps, models, handouts, exhibits, software presentations, raw data, GIS coverages, or videos, and the proposed disposition of these materials. If data are to be collected from the public as part of this study, provide a copy of the data collection instrument (survey, questionnaire, interview, protocol, etc.).

VI. LITERATURE CITED

Include full bibliographic citations for all reports and publications referenced in the proposal.

VII. QUALIFICATIONS

Provide a background summary or curriculum vitae for the principal investigator and other investigators listed in the proposal. Identify their training and qualifications relevant to the proposed project and their ability to conduct field activities in the environment of the proposed study area. Describe previous research and collecting in NPS areas, including study and permit numbers if available.

VIII. SUPPORTING DOCUMENTATION AND SPECIAL CONCERNS

Provide information on the following topics where applicable. Attach copies of any supporting documentation that will facilitate processing of your application, such as other required federal and state permits, copies of peer reviews, letters of support and funding commitments, and certifications. Collection of information from the public when federal funds are used may require approval from the office of Management and Budget (OMB). Upon your request, the NPS Social Science Program will advise you on the steps needed to obtain this approval.

A. Safety

Describe any known potentially hazardous activities, such as electrofishing, rock climbing, whitewater boating, aircraft use, wilderness travel, wildlife capture, handling or immobilization, use of explosives, etc.

B. Access to study sites

Describe the proposed method and frequency to travel to and within the study site(s). Explain any need to enter restricted areas. Describe duration, location, and number of participants for planned backcountry camping.

C. Use of mechanized and other equipment

Describe any field equipment, markers, or supply caches by types, number, and location. Explain how long they are to be left in the field. If there is a need to use these materials in restricted areas, explain why and describe the alternatives that were considered.

D. Chemical use

Identify chemicals and hazardous material that you propose using within the park. Indicate the purpose, method of application, and amount to be used. Describe plans

for storage, transfer, and disposal of these materials and describe steps to remediate accidental releases into the environment. Attach copies of Material Safety Data Sheets.

E. Ground disturbance

Describe the type, location, area, depth, number, and distribution of expected ground-disturbing activities, such as soil pits, cores, stakes, or latrines. Describe plans for site restoration of significantly affected areas.

Proposals that entail ground disturbance may require an archaeological survey and special clearance prior to approval of the study. You can help reduce the extra time that may be required to process such a proposal by providing UTM coordinate information for each ground disturbance area.

F. Animal welfare

If the study involves vertebrate animals, describe your protocol for any capture, holding, marking, tagging, tissue sampling, or other handling of these animals (including the training and qualifications of personnel relevant to animal handling and care). If your institutional animal welfare committee has reviewed your proposal, please include a photocopy of their recommendations. Describe alternatives considered, and outline procedures to be used to alleviate pain or distress. Include contingency plans to be implemented in the event of accidental injury to or death of the animal.

G. NPS assistance

Describe any NPS assistance needed to complete the proposed study, such as use of equipment or facilities or assistance from staff.

H. Wilderness minimum requirement protocols

Research projects are subject to minimum requirement analysis (MRA) to evaluate appropriateness of research activities and methods. If some or all of your activities will be conducted within a location administered by the NPS as a designated, proposed, or potential wilderness area, your proposal should describe how the project adheres to wilderness minimum requirement and minimum tool concepts. Refer to the park's wilderness management plan for further information.

REQUIRED PERMITS AND DOCUMENTATION

I. GENERAL PERMITS

A. Research and Collecting Permit

Required for all studies and specimen collecting within NPS areas

B. Certificate of Insurance

Required for studies and specimen collecting within NPS areas. Requirements include written proof of general liability and accidental injury/death insurance covering all individuals participating in field studies (employees and volunteers). For legally self-insured entities, including federal and state agencies, a signed statement by a knowledgeable authority indicating self-insurance and Workers Compensation coverage of employees and volunteers will suffice. Other applicants should provide a photocopy of their current certificate of insurance. Certificates of insurance, which list the insured organization and the limits of coverage, can be obtained from your insurance agency. Approval for certain activities may be denied on the basis of insufficient insurance (\$1 million general liability coverage is recommended).

II. PERMITS FOR ARCHAEOLOGICAL STUDIES

A. Archaeological Resources Protection Act Permit (ARPA Form DI-1927)

Required for archaeological or cultural resource studies that propose ground disturbing activities.

B. Assessment of Effect on Cultural Resources (Form 10-58)

Required for review of archaeological site location data and site surveys without collection or excavation.

III. PERMITS NEEDED FOR ACCESS TO RESTRICTED PARK LOCATIONS

A. Aviation Permit

Required for helicopter or airplane flights above or into Grand Canyon National Park. Aircraft use is discouraged when other alternatives are possible.

B. Backcountry Use Permit

Required for all overnight camping. Also required for any off-river camping during river trips.

C. River Launch Permit

Required for all research river trips below Lees Ferry. This permit authorizes river travel and camping along the mainstem Colorado River in Grand Canyon National Park.

PERMITS ISSUED OR REQUIRED BY OTHER AGENCIES

Bird Banding and Salvage Permit (US Fish and Wildlife Service)

Required for capture, tagging, or marking of live birds and for salvage of dead specimens

Endangered Species Permit

NPS permits for work with endangered species are only valid when attached to a current USFWS permit. If your work will involve endangered species, please provide a photocopy or .pdf file of your USFWS permit with your application for an NPS Scientific Research and Collecting permit.

Migratory Bird Scientific Collecting Permit (USFWS)

Required for taking of migratory birds, nests, or eggs

Native Plant Collecting Permit (AZ Department of Agriculture)

Required for transport of native plants protected under state laws

OMB Survey Approval (Federal Office of Management and Budget)

Required for federally funded public surveys (e.g. visitor surveys)

Scientific Collecting Permit (AZ Game and Fish Department)

Required to collect and transport fish and wildlife protected under state laws

ACTIVITIES ON ADJACENT FEDERAL OR TRIBAL LANDS

Contact the responsible land management agency or American Indian Tribe directly regarding permits for scientific activities on federal or tribal lands outside park boundaries.

Federal Lands

Kaibab National Forest

BLM

Lake Powell NRA

Glen Canyon NRA

Grand Canyon-Parashant National Monument

Tribal Lands

Navajo Nation

Navajo Nation lands begin one-quarter mile east of the historic high water line on the left bank of the river at Lees Ferry (RM 0) and extend to the confluence of the LCR in GRCA. Use of these lands is by permit only, obtained through the Navajo Nation. The visitor center is located at the junction of Highway 89 and Highway 64 in Cameron, AZ. Information and permits can be obtained for trails along the Colorado River, Marble Canyon, Jackass Canyon, Salt Trail Canyon, Totahatso Point, Rainbow Bridge trails, Cove Mesa, Coal Mine Canyon and areas in the western portion of the Navajo Nation.

Navajo Parks and Recreation Department

Cameron Tribal Office

PO Box 459

Cameron, AZ 86020

928.679.2303 fax: 928.679.2017

<http://navajonationparks.org/permits.htm>

Havasupai Tribe

These lands are located on the south (left) side of the canyon, including Havasu Canyon upstream of Beaver Falls. Questions regarding research on Havasupai tribal lands can be directed to Don Watahomogie at 928.448.2731.

<http://www.havasupaitrIBE.com/tourism.html>

Hualapai Tribe

Hualapai Tribal lands begin on the left (south) side of the canyon above the historic high water line at RM 165 and extend to RM 273. Any use of those lands must be approved in advance in writing.

Hualapai Department of Natural Resources
PO Box 300
Peach Springs, AZ 86434
928.769.2254 fax: 928.769.2309

Hualapai Cultural Resources
PO Box 310
Peach Springs, AZ 86434
928.769.2223 fax: 928.769.2234
<http://hualapai.org/>

Grand Canyon National Park Specific Conditions

CLOSED and RESTRICTED AREAS

The following areas are **closed to public entry at all times**, and are restricted to *use and access by permit only*:

- Anasazi Bridge (RM 43)
- Hopi Salt Mines (RM 62)
- Furnace Flats (RM 71)
- All caves and mines, including but not limited to, Hance Mine (RM 78), Bass Mine – including the tailings and waste rock areas (RM 111), Bat Cave (RM 226), and Rampart Cave (RM 274.5)
- Deer Creek narrows - the closure extends from the second (or downstream waterfall) to the base of the main waterfall at river level. If you can "walk" to a given point, it is open, if you need your hands or a rope to get in/out, it is closed.

The following areas are **closed to camping** and restricted to *day use only*:

- Redwall Cavern (RM 33)
- Little Colorado River (LCR) confluence (river left - mile 60 to 65).
- Black Bridge to Pipe Creek (RM 87 to 89)
- Matkatamiba Canyon below the Redwall formation
- Shinumo Creek (RM 109)
- Elves Chasm (RM 116.5)
- Tapeats Creek drainage (RM 133.5), including 1/8 mile upstream or downstream of the confluence. Restriction does not apply to backpackers.
- Thunder River drainage from Surprise Valley to confluence with Tapeats Creek
- Deer Creek confluence: ½ mile upstream or downstream on the north side of the river (RM 136)
- Kanab Creek drainage (RM 143.5), including the area ¼ mile upstream and downstream
- Columbine Falls - within 300 yards of the falls (RM 274.3)
- Havasu Creek
- Between the mouth of the Paria and Navajo Bridge
- All limestone caves in Redwall formation
- River mile 47 (Saddle Canyon below the Redwall formation)
- Phantom Creek below the major waterfall near the 3600 foot contour line
- Grandview historic mining district
- Dripping Springs
- Clear Creek drainage from the Colorado River north to the first major side canyon entering from the east. Restriction does not apply to river parties at the Colorado River.
- Page Spring
- Deer Spring
- Phantom Ranch (except for designated sites)
- Basin use area
- Manzanita use area
- Uncle Jim Point
- Transept use area
- Long Jim use area
- Tusayan use area
- Deer Creek Falls

The following roads are closed to ALL motorized and mechanized travel per Final Wilderness Recommendation, 1993 and 2010 updates:

South Rim District

Cape Solitude from E-14 road

W8

W8a

Jicarilla Point from W1

W-9 (except from FS-328 to W-9A)

North Rim District

Kaibab Plateau

Widforss Point (NW-1C)	Walla Valley (NW-5)
Tiyo Point (NW-1D)	Bedivera Point (NW-6)
Tiyo Point spur one (NW-1DA)	Galahad Point (NW-6A)
Tiyo Point spur two (NW-1DB)	Thompson Canyon (NE-1)
Lower Little Park (NW-1E)	Point Imperial (NE-1A)
Crystal Creek (NW-1E)	Old Bright Angel Trail Access (NE-2)
Upper Little Park (NW-2)	Komo Point (NE-4)
Elephant Bog (NW-3)	Francois Mathes Point (NE-5)
Fawn Spring One (NW-3A)	Francois Mathes Point spur (NE-5A)
Fawn Spring Two (NW-3B)	Walhalla Glades (NE-6)
South Lancelot Point (NW-4A)	Walhalla Glades spur (NE-6B)
Tipover Springs (NW-4B)	Cape Final (NE-7) – converted to trail

Kanab Plateau (east to west) – note: roads do not have common names

K-1	K-26 from the park boundary south to junction with K-25
K-2	K-27
K-7	K-29
K-8	K-30 from its junction with K-26 and K-28 east to end (junction with K-36 and K-37)
K-9	K-31
K-11	K-32
K-12	K-33
K-13	K-34
K-15	K-35
K-16	K-37 from park boundary south to junction with K-38
K-17	K-40
K-18	K-41
K-20	K-42
K-22	K-43
K-23	K-44
K-24	K-45

Toroweap Valley

T-3 from Tuckup at Dream Rock (1/4 mile east of T-1 junction) to end
T-4 from Landfill to the Cove
T-4a

T-5
T-6 north end of Toroweap CG at site 9 to end (junction with T-3)
T-7
T-8
T-9

Sanup Plateau

S-1 from the NPS boundary to two-track north of the "Fort Garrett" ruin and two-track south of the ruin, across Sanup Plateau to the Canyon rim

Grand Wash Cliffs

GW-1

GW-2

GW-3

NOTE:

Official notice of closed areas and activity restrictions in GRCA are included in the Superintendent's Compendium of Closures and Restrictions (4/12), Backcountry Management Plan (9/88), and the Colorado River Management Plan (10/06). A summary of backcountry use restrictions is also included in the Backcountry Trip Planner available from the BRO, Grand Canyon National Park, POB 129, Grand Canyon, AZ 86023. Other areas may be closed through placement of conspicuous signs or notices posted at the BRO or Lees Ferry when warranted for the protection of park resources or visitor safety. An approved research authorization does not convey or imply license to cross lands owned or managed by other entities. Boundaries of GRCA and GLCA are depicted on the official maps and guides issued by the respective areas. For information about adjacent areas outside the boundaries of GRCA and GLCA, contact the tribe or agency with management authority.